AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated below.

- 1. (currently amended): Apparatus for transferring settled or suspended solids from an open vessel into a closed vessel, the apparatus comprising a suction line which extends from the closed vessel to the open vessel via drive means, such as a pump or compressor, and a solids feed line which extends from a solids outlet in the open vessel to a solids inlet in the closed vessel, a fluidising apparatus being provided to fluidise the solids in the open vessel.
- 2. (original): Apparatus as claimed in claim 1, in which the fluidising apparatus comprises a flow chamber having a fluid inlet and a fluid outlet, means for establishing a swirling or coanda flow in a fluid passing out of the fluid outlet, and a transport outlet for transporting fluidised material away from the flow chamber.
- 3. (original): Apparatus as claimed in claim 2, in which the transport outlet is situated externally of the flow chamber.
- 4. (currently amended): Apparatus as claimed in claim 2 or 3, in which the transport outlet is situated directly above the flow chamber.
- 5. (currently amended): Apparatus as claimed in any one of claims 2 to 4 <u>claim 2</u>, in which the transport outlet is situated close to the flow chamber.
- 6. (currently amended): Apparatus as claimed in any one of the preceding claims <u>claim 1</u>, in which means is provided for controlling the rate at which solids are transferred from the open vessel into the closed vessel.
- 7. (original): Apparatus as claimed in claim 6, in which the means comprises a flow meter which measures the rate of flow of suspended solids.

- 8. (currently amended): Apparatus as claimed in any one of the preceding claims <u>claim 1</u>, in which the closed vessel comprises a feed vessel which feeds suspended solids into a transport vessel containing a fluidising unit.
- 9. (original): Apparatus as claimed in claim 8, in which the transport vessel comprises a solids outlet through which suspended solids are discharged at a controlled rate along a slurry discharge line.
- 10. (original): Apparatus as claimed in claim 9, in which means are provided on the slurry discharge line for measuring the flow rate of slurry discharge.
- 11. (currently amended): Apparatus as claimed in claim 9 or 10, in which a bypass line is provided to allow fluid from the open vessel to bypass the fluidising unit and to pass directly into the slurry discharge line to control slurry concentration.
- 12. (original): Apparatus as claimed in claim 11, in which a valve is provided in the bypass line.
- 13. (currently amended): Apparatus as claimed in any one of claims 9 to 12 <u>claim</u> <u>9</u>, in which an ultrasonic unit is disposed in the slurry discharge line.
- 14. (currently amended): Apparatus as claimed in any one of the precedingclaims claim 1, in which means are provided for controlling the flow rate and/or concentration of suspended solids from the open vessel into the closed vessel based on the flow rate and/or concentration of suspended solids from the transport vessel, so that the solids content of the transport vessel is maintained at a substantially constant level.

- 15. (original): Apparatus as claimed in claim 14, in which the flow rate of suspended solids from the open vessel to the closed vessel and the rate of discharge of suspended solids from the transport vessel are controlled by means of valves.
- 16. (original): Apparatus as claimed in claim 15, in which the valves are controlled by a computer, dependent on input from flow meters.
- 17. (original): Apparatus as claimed in claim 16, in which the flow meters are mass flow meters.
- 18. (original): Apparatus as claimed in claim 17, in which the flow meters are coriolis or ultrasonic meters.
- 19. (currently amended): A method for transferring settled or suspended solids from an open vessel into a closed vessel, the method comprises the steps of comprising:
 - (a) drawing fluid from the closed vessel into the open vessel;
 - (b) operating a fluidising unit with the said fluid to fluidise the settled or suspended solids; and
 - (c) drawing the fluid and fluidised solids from the open vessel into the closed vessel.
- 20. (original): A method as claimed in claim 19, in which the fluid is drawn from the closed vessel to the open vessel by means of a pump or compressor.
- 21. (currently amended): A method as claimed in claim 19 er 20 in which the fluid is recirculated between the closed vessel and the open vessel, so that no additional fluid is added to or removed from the system.

- 22. (currently amended): A method as claimed in any one of claims 19 to 21 claim 19 further comprising the step of:
 - (d) controlling the rate of discharge of the fluid and fluidised solids from the closed vessel into a discharge vessel, so that a desired concentration of solids is discharged from the discharge vessel.
- 23. (original): A method as claimed in claim 22 in which the concentration of solids discharged from the discharge vessel is maintained at a constant rate.
- 24. (currently amended): A method as claimed in any one of claims 19 to 23 claim 19, in which the step of controlling the rate of discharge of solids from the closed vessel to the discharge vessel is achieved by controlling a valve on a pipe connecting the closed vessel to the discharge vessel.
- 25. (currently amended): A method as claimed in any one of claims 22 to 24 claim 22, further comprising the step of fluidising the solids in the discharge vessel.
- 26. (currently amended): A method as claimed in any one of claims 19 to 25 claim 19, in which no fluid other than the fluid in the open vessel is used to fluidise and transport the settled and suspended solids from the open vessel to the closed vessel.
- 27. (currently amended): A method as claimed in any one of claims 19 to 26 claim 19, in which no fluid other than the fluid in the open vessel is used to transport solids from the closed vessel to the discharge vessel.
- 28. (currently amended): A method as claimed in any one of claims 19 to 27 claim 19, which is adapted to operate below sea level to remove contaminated material from the seabed and to hydro hoist this material to a receiving ship or barge for treatment or transportation to the shore.

- 29. (currently amended): A method as claimed in any one of claims 19 to 27 claim 19 adapted to remove material from the seabed for the purposes of dredging or the mining/retrieval of valuable elements.
- 30. (currently amended): A method as claimed in any one of claims 19 to 27 claim 19 adapted for the removal of radioactive waste solids from storage ponds and tanks.
- 31. (currently amended): A method as claimed in any one of claims 19 to 27 claim 19 for use in conveying material deposited at the base of a mine shaft to a transport vessel and hydro transporting that material to the surface.
- 32. (currently amended): A method as claimed in any one of claims 19 to 27 claim 19 for use in conveying a material directly into the suction line of a slurry pump at concentrations and/or pressures matched to the pump's characteristics in order to maximize its efficiency.